

Response to the Final Office Action Dated October 8, 2003
Serial No. 10/056,101

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (currently amended) An anchored anti-rotation analog post for preparing a jaw implant supporting a dental crown for insertion into the mouth of patient, said analog post comprising:
an elongated pin having opposite top and bottom ends;
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof.
2. (Original) The device of claim 1 wherein said pin has a circular cross-section.
3. (Original) The device of claim 1 wherein said pin has an elliptical cross-section.
4. (Original) The device of claim 1 wherein said pin has a polygonal cross-section.
5. (Original) The device of claim 4 wherein said pin has a triangular cross-section.
6. (Original) The device of claim 4 wherein said pin has a square cross-section.
7. (Original) The device of claim 4 wherein said pin has a rectangular cross-section.
8. (Original) The device of claim 4 wherein said pin has a hexagonal cross-section.
9. (Original) The device of Claim 1 wherein said at least one anchoring projection comprises a pair of opposing radially extending projections.
10. (Original) The device of Claim 1 wherein said at least one anchoring projection comprises at least two pairs of opposing radially extending projections.
11. (Original) The device of Claim 9 wherein said at least two pairs of said opposing radially extending projections are spaced apart longitudinally on said pin near said bottom end thereof.

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12. (Currently Amended)-The device of Claim 9 An anchored anti-rotation analog post for preparing a jaw implant supporting a dental crown for insertion into the mouth of patient, said analog post comprising:
an elongated pin having opposite top and bottom ends;
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof, wherein said at least one anchoring projection comprises a pair of opposing radially extending projections wherein said at least one pair of opposing radially extending anchoring projections comprises rigid loops.
13. (Original) The device of Claim 9 wherein said at least one pair of opposing radially extending anchoring projections comprises rigid rods.
14. (Currently amended) The device of Claim 9 An anchored anti-rotation analog post for preparing a jaw implant supporting a dental crown for insertion into the mouth of patient, said analog post comprising:
an elongated pin having opposite top and bottom ends;
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof, wherein said at least one anchoring projection comprises a pair of opposing radially extending projections, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid plates having a center slot, said center slot disposed in a matching slot disposed in the lower end of said pin, said lower-end pin slots for receiving and securing said rigid plates.
15. (Currently amended) The device of Claim 9 An anchored anti-rotation analog post for preparing a jaw implant supporting a dental crown for insertion into the mouth of patient, said analog post comprising:
an elongated pin having opposite top and bottom ends;
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof, wherein said at least one anchoring projection comprises a pair of opposing radially extending projections, wherein said at least one pair of opposing radially extending anchoring projections

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comprises rigid serrated barbs.

16. (Original) The device of Claim 15 wherein said barbs are tapered to have a smaller radial extension toward the lower end of said pin.
17. (Original) The device of Claim 15 wherein said barbs are tapered to have a smaller radial extension toward the upper end of said pin.
18. (Original) The device of Claim 10 wherein said at least two pairs of said opposing radially extending projections are spaced apart longitudinally on said pin near said bottom end thereof.
19. (Currently amended) ~~The device of Claim 10~~ An anchored anti-rotation analog post for preparing a jaw implant supporting a dental crown for insertion into the mouth of patient, said analog post comprising:
an elongated pin having opposite top and bottom ends;
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof wherein said at least one anchoring projection comprises at least two pairs of opposing radially extending projections,
wherein said at least one pair of opposing radially extending anchoring projections comprises rigid loops.
20. (Original) The device of Claim 10 wherein said at least one pair of opposing radially extending anchoring projections comprises rigid rods.
21. (Currently amended) ~~The device of Claim 10~~ An anchored anti-rotation analog post for preparing a jaw implant supporting a dental crown for insertion into the mouth of patient, said analog post comprising:
an elongated pin having opposite top and bottom ends;
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof wherein said at least one anchoring projection comprises at least two pairs of opposing radially extending

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projections, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid plates having a center slot, said center slot disposed in a matching slot disposed in the lower end of said pin, said lower-end pin slots for receiving and securing said rigid plates.

22. (Currently amended) ~~The device of Claim 10~~ An anchored anti-rotation analog post for preparing a jaw implant supporting a dental crown for insertion into the mouth of patient, said analog post comprising:
an elongated pin having opposite top and bottom ends;
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof wherein said at least one anchoring projection comprises at least two pairs of opposing radially extending projections, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid serrated barbs.
23. (Original) The device of Claim 22 wherein said barbs are tapered to have a smaller radial extension toward the lower end of said pin.
24. (Original) The device of Claim 22 wherein said barbs are tapered to have a smaller radial extension toward the upper end of said pin.
25. (Original) The device of claim 9 wherein said pin comprises a receptacle sleeve for securely receiving a conventional dental crown analog post.
26. (Original) The device of claim 10 wherein said pin comprises a receptacle sleeve for securely receiving a conventional dental crown analog post.
27. (Currently amended) A method of preparing dental crowns efficiently and accurately, comprising the steps of
- a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin;

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- b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;
 - c. securing said prepared mounting pin temporarily in place within said casting mold;
 - d. adding settable plastic molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said plastic molding material; and
 - e. allowing said plastic molding material to set and harden with said prepared pin embedded within said molding material;
 - f. ~~proceeding with conventional steps in dental crown-making based upon utilization of said firmly anchored and secured analog pin.~~
28. (Original) The method of claim 27 wherein said pin comprises at least one pair of anchoring projections oppositely and radially extending from a bottom end of said pin.
29. (Original) The method of claim 27 wherein said pin comprises at least two pairs of anchoring projections oppositely and radially extending from a bottom end of said pin and wherein said at least two pairs of said projections are spaced apart longitudinally on said pin near said bottom end thereof.
30. (Currently amended) The method of claim 28 A method of preparing dental crowns efficiently and accurately, comprising the steps of
a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed

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near a bottom end of said pin wherein said at least one pair of opposing radially extending anchoring projections comprises rigid loops;

b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold wherein said pin comprises at least one pair of anchoring projections oppositely and radially extending from a bottom end of said pin;

c. securing said prepared mounting pin temporarily in place within said casting mold;

d. adding settable plastic molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said plastic molding material; and

e. allowing said plastic molding material to set and harden with said prepared pin embedded within said molding material.

31. (Currently amended) The method of claim 28 A method of preparing dental crowns efficiently and accurately, comprising the steps of

a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin wherein said pin comprises at least one pair of anchoring projections oppositely and radially extending from a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid rods;

b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;

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c. securing said prepared mounting pin temporarily in place within said casting mold;

d. adding settable plastic molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said plastic molding material; and

e. allowing said plastic molding material to set and harden with said prepared pin embedded within said molding material.

32. (Currently amended) ~~The method of claim 28~~ A method of preparing dental crowns efficiently and accurately, comprising the steps of

a. preparing an analog for a jaw implant for a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin wherein said pin comprises at least one pair of anchoring projections oppositely and radially extending from a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid plates having a center slot, said center slot disposed in a matching slot disposed in the lower end of said pin, said lower-end pin slots for receiving and securing said rigid plates;

b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;

c. securing said prepared mounting pin temporarily in place within said casting mold;

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d. adding settable plastic molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said plastic molding material; and

e. allowing said plastic molding material to set and harden with said prepared pin embedded within said molding material.

33. (Currently amended) The method of claim 28 A method of preparing dental crowns efficiently and accurately, comprising the steps of

a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin wherein said pin comprises at least one pair of anchoring projections oppositely and radially extending from a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid serrated barbs;

b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;

c. securing said prepared mounting pin temporarily in place within said casting mold;

d. adding settable plastic molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said plastic molding material; and

e. allowing said plastic molding material to set and harden with said prepared pin embedded within said molding material.

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34. (Original) The method of Claim 33 wherein said barbs are tapered to have a smaller radial extension toward the lower end of said pin.
35. (Original) The method of Claim 33 wherein said barbs are tapered to have a smaller radial extension toward the upper end of said pin.
36. (Original) The method of claim 29 wherein said at least one pair of opposing radially extending anchoring projections comprises rigid loops.
37. (Original) The method of claim 29 wherein said at least one pair of opposing radially extending anchoring projections comprises rigid rods.
38. (Currently amended) The method of claim 29: A method of preparing dental crowns efficiently and accurately, comprising the steps of
a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid plates having a center slot, said center slot disposed in a matching slot disposed in the lower end of said pin, said lower-end pin slots for receiving and securing said rigid plates, wherein said pin comprises at least two pairs of anchoring projections oppositely and radially extending from a bottom end of said pin and wherein said at least two pairs of said projections are spaced apart longitudinally on said pin near said bottom end thereof;
b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;

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c. securing said prepared mounting pin temporarily in place within said casting mold;

d. adding settable plastic molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said plastic molding material; and

e. allowing said plastic molding material to set and harden with said prepared pin embedded within said molding material .

39. (Currently amended) ~~The method of claim 29~~ A method of preparing dental crowns efficiently and accurately, comprising the steps of

a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid serrated barbs, wherein said pin comprises at least two pairs of anchoring projections oppositely and radially extending from a bottom end of said pin and wherein said at least two pairs of said projections are spaced apart longitudinally on said pin near said bottom end thereof;

b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;

c. securing said prepared mounting pin temporarily in place within said casting mold;

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- d. adding settable plastic molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said plastic molding material; and
- e. allowing said plastic molding material to set and harden with said prepared pin embedded within said molding material.
40. (Original) The method of Claim 39 wherein said barbs are tapered to have a smaller radial extension toward the lower end of said pin.
41. (Original) The method of Claim 39 wherein said barbs are tapered to have a smaller radial extension toward the upper end of said pin.